# XXXIV.-New Evaniidse and Braconila in the British Museum. By Rowlani E. Turner, F.Z.S., F.L.S.S. 

## Family Evaniidæ.

Pristaulacus emarginaticeps, sp. n.
f. Nigra ; fusco-pilosula; scapo subtus, femoribus antieis apiee, tibiis anticisintermediisquesubtus, tarsisque anticis intermediisque brunneis; alis fusco-hyalinis, antieis basi fuscis, fasciaque latissima sub stigmate fusea; capite postiee profunde emarginato; cellula eubitali secunda renas recurrentes duas excipiente; unguiculis sex-dentatis.
Long. 13 mm .; terebre long. 10 mm .
\&. Head massive, very deeply and rather narrowly emargiuate posteriorly, shining and almost smooth, the front minutely punctured; clypeus with a small tooth in the middle of the anterior margin. Anteume stout, the second joint twice as long as broad, the fourth about one-third longer than the third. Prothorax with a small tooth on each side bencath, the thorax somewhat overhanging the anterior truncation ; presentum strongly transversely striated, longitudinally depressed in the middle; scutellum, median segment, and pleure very coarsely reticulate ; hind coxe transversely striated; tarsal ungues with a comb of six teeth in addition to the apical point. Abdomen somewhat compressed laterally; the first segment petiolate, broadened at the apex, and longer than the rest of the abdomen; the apical segments sparsely clothed with cincreous pubescence. Second transwerse cubital nervure incomplete, indicated by a sear in the middle; second cubital cell receiving both recurrent nervures, the first close to the base, the second just before three-quarters from the base. The dark transverse band from the stigma is very broad, occupying the whole of the second cubital and second discoidal cells, also the apical half of the first cubital and the basal portion of the radial cell, but the extent of the band may be variable.

Hab. Hoabinh, Tonkin, August 1918 (R. Vitalis de Salvaza) ; 1 ㅇ.

Very distinct in the emargination of the head, the number of teeth in the ungues, and the position of the first recurrent nervure.

## Pristaulacus excisus, sp. 11.

\&. Very similar to $P$. emaryinaticops, bint the head is rather less massive ; the posterior emargination is witer amd lens deep; there is no tooth on the maryin of the clypens; the antenne are more slender; the wings are less strongly infuseated, especially at the apex, rendering the dark area below the stigma more conspicuons ; the secomd recurent nervare is received beyond fonr-fifths from the base of the second cubital cell, and the sompture of the mesoplenra is not as coarse. 'Tarsal ungnes with four tecth only.

Hab. Huabinh, Tonkin, August 1918 (R. I 'itulis de Salvaza).

## Pristaulacus beesoni, sp. n.

f. Nigra: alhido-pilosula; alis hyalinis, venis nigris, anticis macula nigra sub stigmate, rena cubitali transsersa secumdit in dimidio inferiore decolorato ; scapo brumeo.
$\delta^{\circ}$. Femine similis.
Long., , 11 mm .; terebrex long. 8 mm ; ; $\delta, 10 \mathrm{~mm}$.
f. Head smooth and shining, the front mieroscopically punctured and elothed with short white pubescence. Sccond antemal joint twice as loug as broad, the fourth hati as long ayain as the third, the apieal joints slender. Ihorax vertically trmeate anteriorly, the prothorax with a small spine on each side bencath. Mesonotum and sentellam very coarsely transversely striated, the preseutum longitudinully depressed in the middle; median segment inm plentie coarsely reticulate. First abdominal segment petiolate, broadened at the apex, and longer than the rest of the abdomen; the apical segments clothed with very delicate white pubesecnce. 'Tarsal muges with four tecth, exchuling the apical point. First recurent nervure received by the first cubital cell a little before the apex, seeond received before three-fifths from the base of the second eubital cell. The fuscous spot below the stigma is smull, not entering the secoud cubital cell, and searcely reaching beyond the middle of the first transverse cubital nervire.

Hab. Thano, Siwalik Hills, United Provinecs, India, September 6, 1919 (C. F. C. Becson).

Taken emerging from a Sill log.
This is very near $I^{\prime}$. nigripes, Kiefl., from Sikkim, of
which it may prove to be a subspecies. It differs in the clearer hyaline wings, in the smaller stigmal fuscous mark, and in the position of the recurrent nervures. The latter character does not appear to be very reliable in this genus.

## Family Braconidæ.

Subfamily Vipionine, Viereck.

> Genus Moxocolla, Roman.

Monocoila signata, sp. n.
¢. Fulva; mandibulis apice, antennis, vertice, prosterno lateribus, mesosterno, mesonoto notaulis exceptis, terebra, valvulis, tarsorumque articulo apicali nigris ; alis fusco-hyalinis, venis nigris. Long. 5 mm .
f. Head finely punctured, sparsely on the shining vertex, more closely on the opaque face; a shallow sulcus running from the anterior ocellus to the base of the antennæ; the black colour on the vertex produced anteriorly in the middle so as to inchde the ocellar region and reaching the base of the antemæ ; the head transverse and rather strongly narrowed behind the eyes. Thorax shining, sparsely and very finely punctured; notauli deep and smooth; median segment smooth and shining. Abdomen rugose-reticulate, the sutures cremulate ; second tergite with a low median carina from the base, nearly reaching to the suture marking the division between the fused second and third tergites; the apical lobes of the fifth tergite on each side of the apical emargination more strongly rounded than in pectoralis, Holmg., and the emargination itself distinctly narrower. 'Terebra less than half as long as the abdomen. Neuration as in M. pectoralis, but the cubital nervure is not curved at the base, in this point resembling M. secunda, Szépl.

Hab. Ceres, Cape Province, November 1920 (R. E.Turner) ; 1 ㅇ.

The sculpture of the tergites is less coarse than in pectoralis.

## Monocoila innotata, sp. n.

ㅇ. Rubra; capite uigro, orbitis angustissime genisque rufis; mandibulis flavis, apice nigris, antennis palpisque nigris, prosterno macula parra utrinque tarsisque articulo apicali uigris; alis fuscis, renis nigris.
Long. 5 mm .

P．Similar to $\%$ ．signala．but the face is shining，not opaque，the sculpture of the tergites is more rugose and less retioulate ：the suture betwern the fused second and third tergites is narrower and less distinct，less strongly arehed in the middle，and less distinetly ercmulate；the emargination of the filth teryite is shallower，the lobes on each side of it leos romoded at the apes．The valvolie are half as long as the ablomen，lint the terebra in the type is exserted and longer than the athdomen．

Hab．Cores，Cape Province，November 1920 （R．E． Turner）： 1 \＆．

## Subfamily Aphrastobracontye．

## Endovipio，gel．nov．

Head small；abdomen almost smooth，rather slender，the second tergite as long as broad，with an elongate triangular raised area at the base ；cubitus of the fore wing straight， not bent at the base as in Aphrastobracon；nervulus strongly antefurcal．

## Enduripio ceresensis，sp．n．

ठ ．Rufo－luteus：antemis，palpis，tarsisque nigris；alis hyalinis，
leviter infuscatis，iridescentibus，stigmate venisque brunneis． L．ong． $3 \cdot 5-4 \mathrm{~mm}$ ．

ठ．Antemese slender，31－jointed，a little shorter than the whole insect．Head smonth and shining on the vertex and front；face narrow，opaque，fincly and very closely punc－ tured；eyes very large．Thorax and median segment smooth and shining ；the notanli shallow and smooth，almost obso－ lete ：mesopleural furrows not crenulate．Abdomen smooth and shining，the second tergite with a raised elongate tri－ angular basal area，the basal and lateral sides strongly margined；thirl tergite with a small raised area at the basal angles．Radins originating close to the middle of the stigma and reaching the apex of the wing ；first discoidal ce！！petiolate ：second abseissa of the radius twice as long as the first，second enbital long and narrow，first transverse culital nervure strongly oblique，second straight and short． Nervilus oblique，antefurcal，separated from the basal nervure by a distance equal to half its own length．

Hab．Ceres，Cape Province，February and March 1921 （R．E．Turner）；こるざ

The genus resembles Microbracon, Ashm., except in the nenration, whereas Aphrastobracon resembles the more robust and sculptured Campyloneurus, Szépl.

This is the first Ethiopian record of the subfamily, the other species being Oriental.

## Subfamily Doryctin.e.

## Holcobracon coxalis, sp. n.

ㅇ. Luteo-testacea; flagello, terebra, valvulis, mandibulis apice, tarsisque apice extremo nigris; alis basi pallide flavo-hyalinis, dimidio apicali pallidissime fusco-hyalinis; stigmate fusco, basi late flaro; renis basi testaceis, apice fuscis; coxis posticis basi subtus tuberculatis.
Long. 10 mm .; terebræ long. 7 mm .
of Antennæ very long and slender, at least 12 mm . in lengtly (the extreme apical joints missing in the only available specimen) ; face below the anteunæ very delicately transversely rugulose ; frontal excavation shallow, smooth, and shining. Cheeks about one-third of the length of the eyes, the eyes separated from the margin of the head by a distance equal to half their diameter. Pronotum coarsely punctured; mesonotum smooth and shining; parapsidal furrows deep, finely creuulate. Scutellum with a transverse groove at the base, the groove dirided by a longitudinal carina. Dorsal surface of the median segment smooth and shining, divided by a shallow longitudinal groove, margined posteriorly and laterally, the apicil slope punctured closely; the sides of the segment more sparsely punctured, with a longitudinal carina. First tergite less than twice as long as broad, finely and closely longitudinally striated ; second tergite also finely longitudinally striated, broadly smooth at the apex, an oblique sulcus rumning from the base at each side, diverging and joining near the apex a coarsely-striated transverse sulcus; the apical tergites smooth and shining. Hind coxæ sparsely punctured, produced triangularly at the base beneath to a small tubercle. Recurrent nervure received by the first cubital cell; second abscissa of the radius less than twice as long as the first.

Hab. Dehra Dun, United Provinces, India, September 1913 (No. 8) (C. F. C. Beeson) ; 1.9.

This is distinguishable from typical Holcobracon by the structure of the hind coxæ, but I do not consider it sufficiently distinct to descrve generic rank.

## Holcobracon fulcus, Cam.

Holcobracon fuleus, Cam. Spolia Zeylanica, iii. p. 90 (1905). 아.
Subsp. atriceps, nov.
\&. Differs from the typical form from Ceylon in having the whole of the vertex black, and the longitudinal strite, on the third tergite extend a little further from the base than in the type.

Hab. Dehra Dun, July 1913 (No. 28) (C. F. C. Beeson), 1 of Kangra Valley, 4500 ft ., Angust (G. C. Dudgeon), 1 \&.

Cameron subsequently (1910) used the generic name Holcobracon a second time for an African genus, which apparently is allied to Iphiaulax.

## Trichiobracon striolatus, Szépl.

I have given the syonyms of this Bornean species previously (Anu. \& Mag. Nat. Hist. (8) xx. p. 245, 1917).

Specimens from Dehra Dun (Scptember 1913, No. 13) differ from the trpical form in having the sides of the sccond tergite distinctly punctured; whereas in specimens from Borneo the punctures are more or less confluent, ruming into longitudinal strix. It is probable that the Indian specimens represent a distinct subspecies.

## Doryctomorpha antipoda, Ashm.

Doryctomorpha antipola, Ashm. Entom. News, xi. p. 630 (1900). ㅇ.
A female from Wilton's Bush, New Zealand, answers to the description, exc pt in having the antennee 28-joiuted and the terebra only equal in length to the insect, not longer. Ashmead's description reads "Antennæ 2-3-jointed," probably meaning 23 . I consider it probable that the New Zealand and Chatham Island forms represent only one species.

Subfamily $B_{\text {Raconves }}$ (olim Agathince).
Genus Orgiles, Hal.
The three species of Orgilus described here may be separated by the following key : -

[^0]2. First tergite with a luteous apical band fore wing bifasciate ........................................ 0. bifasciatus.
First tergite entirely black; fore wing hyaline...... O. parcus.

## Orgilus bifasciatus, sp. n.

f. Nigra; tergito primo fascia transversa apicali lutea; tibiis posticis internediisque basi albo-annulatis; calcariis posticis albis; tibiis tarsisque anticis, femoribus anticis apice, terebra, flagelloque brunneis; alis hyalinis, fusco bivittatis, stigmate renisque fuscis.
Long. 4 mm .; terebre loug. 4 mm .
f. Head distinctly broader than the thorax, a deep fovea on each side of the clypeus, rertex almost smooth, face minutely punctured. Thorax closely and finely punctured, more finely on the mesopleuræ than on the mesonotum, the sulci on the mesopleuræ finely crenulate. Median segment and hind cosze closely punctured. First and second tergites rugulose, the secoud tergite as long as broad ; third tergite and base of the fourth finely aciculate. Wings crossed by two pale fuscous bands, which are separated by a hyaline band crossing the wing from the base of the stigma.

Hab. Mossel Bay, Cape Province, April 1921 (R. E. Turner) ; 2 우.

## Orgilus parcus, sp. n.

f. Nigra; flagello, tarsis ralrulisque fusco-brunneis; alis hyalinis, renis fuscis; calcariis pallide brunneis.
Long., $+\frac{1}{}, 4 \mathrm{~mm}$., terebræ long. 3 mm .; $\delta^{7}, 3 \cdot 5 \mathrm{~mm}$.
ㅇ. Head scarcely broader than the thorax, closely and finely punctured, more closely on the face than on the vertex, the usual fovea on each side of the clypeus. Thorax finely and closely punctured, the punctures on the middle of the mesopleuræ very minute, the furrows on the mesopleuræ finely crenulate. Median segment punctured-rugose; the two basal tergites and the extreme base of the third coriaceous, the remaining tergites smooth and shining. Second tergite subquadrate, as long as its basal breadth.
б. Similar to the female; the antennæ 28-jointed in both sexes, and the palpi black.

Hab. Mossel Bay, Cape Province, December to July (R. E. Turner). Also from Ceres, Cape Proviuce.

A good series taken.

## Orgilus upostolicus, sp. n.

ס. Niger; tibiis tarsisque anticis, tarsis intermediis, metatarso postico basi, calcariis flagelloque brunneis; tibiis intermediis posticisque basi albo-annulatis; alis hyalinis, venis fuscis. Long. 5.5 mm .
d. Head no broader than the thoras, finely and very closely punctured, the foreæ of the elypus large. Thoras closely punctured, notanli distinctly cremulate posteriorly, propleure finely striolate, mesopleure finely puncturedrugulose. Median segment rugose-reticulate, with illdefined longitudinal carine near the apex, the apical slope with two well-defined aree on each side. Three hasal tergites rugulose, the basal tergite with a low longitudinal earina not reaehing the apex, and with a curved suboblique carina ou each side. Sccond tergite much broader than long, fourth tergite coriaccous. The radial cell is broader than is usual in the genus, the radius being widely curved from the stigma; the nervure dividing the cubital eell from the first discoidal cell is almost colourless. Antemice 34 -jointed.

Hab. Camps Bay, Cape Peninisula, October 1920 (R. E. Turner) ; 2 子 ठ.

## Disoplerys dehraensis, sp. n.

․ Fulva; rertice, antennis, mandibulis apice extremo, abdomine, segmento basali excepto, tarsisque posticis nigris; alis dimidio basali, stigmate basi maculaque magna substigmatali flaris, dimidio apicali fuscis; venis basi fulvis, apice fuscis.
Long. 11 nam.
. Antenne as long as the whole insect, the scape clothed with short fuscous hairs. Vertex smooth and shining, face very shallowly and minutely punctured, the usual two interantennal lamellæ well developerl. Thorax shining, almost smonth, the notauli distinct and smooth. Mesosternum closcly punctured; the mesopleure with a broad coarsely striated furrow above the mesostermum, and bounded posteriorly by an oblique carima, on each side of which are several short stric. Scutellum finely puncturel, with a deep basal groove in which are two carinse : postscutellum margined in front and posterionly by strong carine, conneeted in the middle by tiree short carine. Median segment finely punctured on the sides, the spiracles elongate and enclos:d in a rounded area; dorsal surface with a welldefined oblique basal area which is divided by a longitudinal
carina, the posterior slope of the segment is margined above by a carina which is connected with the basal area by three strong carine on each side ; on the posterior slope are two carimæ converging towards the apex, on each side of these carince are tiro well-defined areas. Abdomen smooth and shining. Second cubital cell as long as high at the base, pointed on the radius, the second transverse cubital nervare strongly bent below the middle and emitting the stump of a nervure. The yellow colour of the fore wing extends well beyond the nervulus, and beyond the basal nervure except near the costa. Hind metatarsus longer than the four apical joints of the hiud tarsi.

Hab. Dehra Dun, United Provinces, India, September and October 1913 (Nos. 10 \& 11).

## Bracon (olim C'remnops) desertor, L.

Ichneumon desertor, Linn. Syst. Nat. ed. 10 a, i. p. 563 (17.58).
One fcmale received from Dehra Dun is identical with European specimens (June 1913, No. 1).

## Subfamily Helcontade. <br> Pseudohelcon distanti, sp. n.

ㅇ. Lutea; mandibulis apice, area inter ocellos, antennis valvulisque nigris; tarsis posticis, tibiisque posticis dimidio apieali infuscatis ; alis pallidissime flaro-hyalinis, venis flaris; stigmate dimidio apicali, vena basali, nerrulo radiique abscissa prima fuscis.
Long. 10 mm ., terebre long. 9 mm .

+ . Eyes prominent and fairly large ; the head broad and massive, somewhat swollen behind the eyes, the hind margin broadly and rather shallowly emarginate; vertex shining, very minutely punctured, a space behind the ocelli slightly concave; front and face opaque and very delicately rugulose. Third and fourth antennal joints equal, not quite four times as long as thick; antenuse a little more than two-thirds of the length of the insect. Thorax finely punctured, the notauli deep and finely crenulate. Median segment and first tergite coarsely rugulose, the base of the second tergite more finely rugulose, the remaining tergites smooth and shining. First tergite much longer than broad, second breader than long. Fore tarsi longer than the tibie, but less than half as long again; hind tibize less than twice as
long as the hind femora; hind metatarsms not quite as long as the four following joints combined. First and second abscisse of the radius about equal, second cubital cell fully twiec as long on the cubitus as on the radius, the latter originating nearer to the aper of the stigma than to the base. Reenrent nervure received distinctly before the first transverse cubital nervure; nervulus interstitial ; first discoidal cell sessile; anal cell with two transverse nervures.

Hab. Pretoria (IV. L. Distant).
'This species undoubtedly belongs to Szépligeti's genus P'seuduhelcon, though the legs are somewhat less chongate than indicated in the description of the genns, with different proportion of the joints ; the eyes are not small, and the position of the recurrent nervure is different.

## Aspicolpus hudsoni, sp. n.

d. Niger; pedibus Havo-ferrugineis, coxis postieis, tibiis posticis apice, tarsoramque articulo apicali nigris; alis hyalinis, venis nigris.
Long. 10 mm .
ठ. Head margined posteriorly, not narrowed behind the eyes; vertex shining, tinely and rather sparsely punctured; face opaque, finely rugose; clypeus shining, punctured, very broadly romided at the apex, almost transierse. No frontal excavation. Antenne very long, measuring 11 mm ., 46jointed. Cheeks about as long as the seape. Mesonotum and scotellum finely punctured, notauli well developed. Median segment rugose, the extreme base smooth, with a low, longitudinal, median carina; the segment margined posteriorly, with an ill-defined area on each sille at the apex. Abdomen slender, smooth, and shining, the junction of the abdomen with the median segment sitnated just above the hind cons. Calear of the hind tibia short, hind cose very closely punctured, himd metatarsus as long as the fonr following joints combined. Radins not quite reaching the apex of the wing, originating nearer to the apen of the stimma than to the base; first abseissa of the radius fully half as long as the second, first discoidal cell sessile, nervulus postfurcal, but not strongly so, anal cell with one transerse nervure ; second cubital cell distmatly longer on the conbitus than on the radius, the second transerse culital nerwie forming a right angle with the enbitus.

Mab. Kinluch, Lake IVakatipn, New Zcaland, Jannary 19:1 (G. V', Itudson).

Allied to $A$. penetrator, Sm. (Rhogas $p$.), which I have previonsly placed in this genns. These two species are not typieal Aspicolpus, the nervulus in both being distinctly postfureal ; but they may be left in the genns, at least provisionally.

## Sulfamily Diospilines.

## Diospilus antipodum. sp. n.

ㅇ. Nigra; mandibulis basi, scapo subtus, prothorace, tegulis, mesopleuris macula sub alis, peribusque testaceis ; tibiis posticis dimidio apicali tarsisque posticis infuscatis; alis hyalinis, renis nigris.
o. Feminr similis; prothorace pedibusque posticis nigris; trochanteribus posticis femoribusque basi flavo-testaceis.
Long.,,+ 45 mm ., terebre long. 2 mm .; $\delta^{\circ}, 4 \mathrm{~mm}$.
i. Clypeus transverse at the apex, the central portion raised, with a large round fovea on each side, head margined posteriorly, shining, minutely and sparsely punctured, the vertex almost smooth. Antenne 29 -jninted, scape less than twice as long as its apical breadth. Thorax rather closely punctured, more coarsely on the pleure than on the dorsal surface, the mesopleure with a smooth shining space in the middle. Scutellum convex, smooth in the middle ; median segment rounded, rugosely punctured; abdomen smooth and shining, the basal segment longer than its apical breadth, strongly margined laterally and smooth. Neuration normal, not differing from European species, except in the radial nervure, which reaches the apex of the wing.

ठ . Antennie 28-jointed ; first tergite slender, almost subpetiolate.

Hab. Wiltons Bush, New Zealand (G. V. Hudson).

## Subfamily Euphorive.

Streblocera insperata, sp. n.
ㅇ. Ochracea; flagello apice, mesonoto lobis lateralibus loboyue mediano antice, segmento mediano, petiolo, tergitoque quarto nigris; alis hyalinis, stigmate venisque pallidis.
Long. 4 mm .
of Antemæ 20-jointed, the scape long and stout, measuring 1 millimetre in length, smooth and withont hairs, subtuberenlate bencath at one-third from the base. slightly
curved. Flagellum about twice as long as the seape, the ninth joint produced strongly at the outer apical angle. Head smooth and shining; the front minutely punctured at the sides, with a shallow longitudinal sulens which does not reach the anterior ocellus; the scape inserted on a large round prominence ; face subopaque. Thoras shining, fincly and distantly punctured ; pronotum crenulate; notauli smooth, mesopleure smooth in the middle; a deep transverse groove at the base of the scutellum in which are several longitudinal strie. Median segment rugose, with lateral marginal carime, the apical slope coarsely reticulate. Abdomen smooth and shining, the petiole with delicate longitudinal strix which do not reach the apex. Valvule very short, considerably shorter than the first tergite; femora and tibise long, tarsi rather short. Radius originating a little beyond the middle of the stigma; the costal margin of the radial cell half as long as the stigma.

Hab. Ceres, Cape Province, February and March 1921 (R. E. Turner) ; 2 아

This is not a typical Streblocera, the scape being smooth and rather differently shaped; but I think it may be retained in the genus.
XXXV.-Travassosius rufus, gen. et sp. n.: a Nematode ('Trichostrongylidre) parasitic in the Stomach of the Norwegian Beaver. By M. Khalil, Ph.D. (Lond.), M.D. (Brux.), D.P.H., Hon. Parasitologist to the Zoological society of London*.
Matericul.-Numerons examples of this nematode were found in the stomach of a beaver-" Castor fiber "-from Norway, which died at the Zoological Society's Gardens, London. The animal died on the day following its admission to the menagerie. About two weeks later a second beaver, brought from the same locality, also died. In the latter only a few specimens of the same nematode were found. In both animals the cecum harboured numerous specimons of Cludorchis (Stichorchis) subtriquetrus.

Shape of Body.-In the fresh state the parasites were

[^1]
[^0]:    1. Second tergite transserse, much broader than long, fourth tergite opaque and coriaceous
    O. apostolicus.

    Second tergite subquadrate, fourth tergite shining, alwost smooth

[^1]:    * From the Ielmintholorical Department, London School of Tropical Medicine.

    Amm. (f: Mag. N. Mist. Ner. 9. Vol. x.

